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APPENDIX TITLE	FILES MDCH SENDS TO SUBMITTERS: ANSI X12 835 REMITTANCE ADVICE	DATE 10-4-02	

C FILES MDCH SENDS TO SUBMITTERS

MDCH sends two types of files to submitters described in the following pages:

C1 ANSI X12 834 Remittance Advice files

C2 ANSI X12 997 Functional Acknowledgment files

There are two versions of ANSI X12 997 Functional Acknowledgment files: Version 3051 and Version 4010. Both are described in the following pages.



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C1 ANSI X12 835 REMITTANCE ADVICE

The ANSI X12 835 Remittance advice is under development.



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C2 ANSI X12 997 ACKNOWLEDGMENT FILES

The following pages detail the information sent in both version 3051 and 4010 of the ANSI X12 997 Acknowledgment files.

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C2.1 ANSI X12 997 Functional Acknowledgment, Version 3051

997 Functional Acknowledgment

Functional Group ID=**FA**

Introduction:

This Draft Standard for Trial Use contains the format and establishes the data contents of the Functional Acknowledgment Transaction Set (997) for use within the context of an Electronic Data Interchange (EDI) environment. The transaction set can be used to define the control structures for a set of acknowledgments to indicate the results of the syntactical analysis of the electronically encoded documents. The encoded documents are the transaction sets, which are grouped in functional groups, used in defining transactions for business data interchange. This standard does not cover the semantic meaning of the information encoded in the transaction sets.

Pos. No.	Seg. ID	Name	Req. Des.	Max Use	Loop Repeat	Notes and Comments
M	010	ST	Transaction Set Header	M	1	n1
M	020	AK1	Functional Group Response Header	M	1	n2
		LOOP ID - AK2			999999	
	030	AK2	Transaction Set Response Header	O	1	n3
		LOOP ID - AK3			999999	
	040	AK3	Data Segment Note	O	1	c1
	050	AK4	Data Element Note	O	99	
M	060	AK5	Transaction Set Response Trailer	M	1	
M	070	AK9	Functional Group Response Trailer	M	1	
M	080	SE	Transaction Set Trailer	M	1	

Transaction Set Notes

- These acknowledgments shall not be acknowledged, thereby preventing an endless cycle of acknowledgments of acknowledgments.
The Functional Group Header Segment (GS) is used to start the envelope for the Functional Acknowledgment Transaction Sets. In preparing the functional group of acknowledgments, the application sender's code and the application receiver's code, taken from the functional group being acknowledged, are exchanged; therefore, one acknowledgment functional group responds to only those functional groups from one application receiver's code to one application sender's code. There is only one Functional Acknowledgment Transaction Set per acknowledged functional group.
- AK1 is used to respond to the functional group header and to start the acknowledgement for a functional group. There shall be one AK1 segment for the functional group that is being acknowledged.
- AK2 is used to start the acknowledgement of a transaction set within the received functional group. The AK2 segments shall appear in the same order as the transaction sets in the functional group that has been received and is being acknowledged.

Transaction Set Comments

- The data segments of this standard are used to report the results of the syntactical analysis of the functional groups of transaction sets; they report the extent to which the syntax complies with the standards for transaction sets and functional groups. They do not report on the semantic meaning of the transaction sets (for example, on the ability of the receiver to comply with the request of the sender).



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C2.1 ANSI X12 997 Functional Acknowledgment, Version 3051 (continued)

Segment: **ST** Transaction Set Header
Position: 010
Loop:
Level:
Usage: Mandatory
Max Use: 1
Purpose: To indicate the start of a transaction set and to assign a control number
Syntax Notes:
Semantic Notes: **1** The transaction set identifier (ST01) is used by the translation routines of the interchange partners to select the appropriate transaction set definition (e.g., 810 selects the Invoice Transaction Set).

Comments:
Notes: 997 FUNCTIONAL ACKNOWLEDGMENT

Data Element Summary

Ref.	Data		
Des.	Element	Name	
Attributes			
M	ST01	143	Transaction Set Identifier Code Code uniquely identifying a Transaction Set 997 FUNCTIONAL ACKNOWLEDGMENT Refer to 003051 Data Element Dictionary for acceptable code values.
			M ID 3/3
M	ST02	329	Transaction Set Control Number Identifying control number that must be unique within the transaction set functional group assigned by the originator for a transaction set The Transaction Set Control Numbers in ST02 and SE02 must be identical. The number is assigned by the originator and must be unique within a functional group (GS-GE). The number also aids in error resolution research. For example, start with the number 0001 and increment from there.
			M AN 4/9
			Use the corresponding value in SE02 for this transaction set.



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C2.1 ANSI X12 997 Functional Acknowledgment, Version 3051 (continued)

Segment: **AK1** Functional Group Response Header
Position: 020
Loop:
Level:
Usage: Mandatory
Max Use: 1
Purpose: To start acknowledgment of a functional group
Syntax Notes:
Semantic Notes:
1 AK101 is the functional ID found in the GS segment (GS01) in the functional group being acknowledged.
2 AK102 is the functional group control number found in the GS segment in the functional group being acknowledged.

Comments:

Data Element Summary				
	Ref. Des.	Data Element	Name	
M	<u>Attributes</u> AK101	479	Functional Identifier Code Code identifying a group of application related transaction sets HC Health Care Claim (837)	M ID 2/2
M	AK102	28	Group Control Number Assigned number originated and maintained by the sender SEMANTIC: AK102 is the functional group control number found in the GS Segment in the functional group being acknowledged.	M N0 1/9



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C2.1 ANSI X12 997 Functional Acknowledgment, Version 3051 (continued)

Segment: **AK2** Transaction Set Response Header
Position: 030
Loop: AK2 Optional
Level:
Usage: Optional
Max Use: 1
Purpose: To start acknowledgment of a single transaction set
Syntax Notes:
Semantic Notes:
1 AK201 is the transaction set ID found in the ST segment (ST01) in the transaction set being acknowledged.
2 AK202 is the transaction set control number found in the ST segment in the transaction set being acknowledged.

Comments:

Data Element Summary			
	Ref.	Data	
	Des.	Element	Name
	Attributes		
M	AK201	143	Transaction Set Identifier Code M ID 3/3 Code uniquely identifying a Transaction Set SEMANTIC: AK201 is the transaction set ID found in the ST Segment in the transaction set being acknowledged.
M	AK202	329	837 X12.86 Health Care Claim Transaction Set Control Number M AN 4/9 Identifying control number that must be unique within the transaction set functional group assigned by the originator for a transaction set SEMANTIC: AK202 is the transaction set control number found in the ST Segment in the transaction set being acknowledged.



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C2.1 ANSI X12 997 Functional Acknowledgment, Version 3051 (continued)

Segment: **AK3** Data Segment Note
Position: 040
Loop: AK3 Optional
Level:
Usage: Optional
Max Use: 1
Purpose: To report errors in a data segment and identify the location of the data segment
Syntax Notes:
Semantic Notes:
Comments:
Notes: The data segments of this standard are used to report the results of the syntactical analysis of the functional groups of transaction sets. They report the extent to which the syntax complies with the standards for transaction sets and functional groups. They do not report on the semantic meaning of the transaction sets (for example, on the ability of the receiver to comply with the request of the sender).

Data Element Summary

Ref.	Data		
Des.	Element	Name	
Attributes			
M	AK301	721	Segment ID Code M ID 2/3 Code defining the segment ID of the data segment in error (See Appendix A - Number 77) This is the two or three characters which occur at the beginning of a segment.
M	AK302	719	Segment Position in Transaction Set M N0 1/6 The numerical count position of this data segment from the start of the transaction set: the transaction set header is count position 1 This is the numeric position number of the segment in the Transaction Set with the ST Segment being position 1..
	AK303	447	Loop Identifier Code O AN 1/4 The loop ID number given on the transaction set diagram is the value for this data element in segments LS and LE The loop ID Number given on the Transaction Set Diagram is recommended as the value for this data segment in the segments LS and LE.
	AK304	720	Segment Syntax Error Code O ID 1/3 Code indicating error found based on the syntax editing of a segment This code is required if an error exists. 1 Unrecognized segment ID 2 Unexpected segment 3 Mandatory segment missing 4 Loop Occurs Over Maximum Times 5 Segment Exceeds Maximum Use 6 Segment Not in Defined Transaction Set 7 Segment Not in Proper Sequence 8 Segment Has Data Element Errors



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C2.1 ANSI X12 997 Functional Acknowledgment, Version 3051 (continued)

Segment:	AK4 Data Element Note		
Position:	050		
Loop:	AK3	Optional	
Level:			
Usage:	Optional		
Max Use:	99		
Purpose:	To report errors in a data element and identify the location of the data element		
Syntax Notes:			
Semantic Notes:			
Comments:			
Data Element Summary			
	Ref.	Data	
	Des.	Element	Name
	<u>Attributes</u>		
M	AK401	C030	Position in Segment M
			Code indicating the relative position of a simple data element, or the relative position of a composite data structure combined with the relative position of the component data element within the composite data structure, in error; the count starts with 1 for the simple data element or composite data structure immediately following the segment ID
M	C03001	722	Element Position in Segment M N0 1/2
			This is used to indicate the relative position of a simple data element, or the relative position of a composite data structure with the relative position of the component within the composite data structure, in error; in the data segment the count starts with 1 for the simple data element or composite data structure immediately following the segment ID
	C03002	1528	Component Data Element Position in Composite O N0 1/2
			To identify the component data element position within the composite that is in error
			Used when an error occurs in a composite data element and the composite data element position can be determined.
	AK402	725	Data Element Reference Number O N0 1/4
			Reference number used to locate the data element in the Data Element Dictionary
			Use when data element number can be determined. The data Element Reference Number for this data element is 725. For example, all reference numbers are found with the segment descriptions in this implementation guide.
M	AK403	723	Data Element Syntax Error Code M ID 1/3
			Code indicating the error found after syntax edits of a data element
		1	Mandatory data element missing
		2	Conditional required data element missing.
		3	Too many data elements.
		4	Data element too short.
		5	Data element too long.
		6	Invalid character in data element.
		7	Invalid code value.
		8	Invalid Date
		9	Invalid Time
		10	Exclusion Condition Violated
	AK404	724	Copy of Bad Data Element O AN 1/99
			This is a copy of the data element in error
			Used to provide a copy of erroneous data to the original submitter, but this is not used if the error reported is an invalid character.

3501LOOP(003051)

September 7, 2001



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C2.1 ANSI X12 997 Functional Acknowledgment, Version 3051 (continued)

Segment: **AK5** Transaction Set Response Trailer
Position: 060
Loop: AK2 Optional
Level:
Usage: Mandatory
Max Use: 1
Purpose: To acknowledge acceptance or rejection and report errors in a transaction set
Syntax Notes:
Semantic Notes:
Comments:

Data Element Summary			
Ref.	Data		
Des.	Element	Name	
Attributes			
M	AK501	717	Transaction Set Acknowledgment Code M ID 1/1
			Code indicating accept or reject condition based on the syntax editing of the transaction set
		A	Accepted
		E	Accepted But Errors Were Noted
		M	Rejected, Message Authentication Code (MAC) Failed
		R	Rejected
		W	Rejected, Assurance Failed Validity Tests
		X	Rejected, Content After Decryption Could Not Be Analyzed
	AK502	718	Transaction Set Syntax Error Code O ID 1/3
			Code indicating error found based on the syntax editing of a transaction set
		1	Transaction Set Not Supported
		2	Transaction Set Trailer Missing
		3	Transaction Set Control Number in Header and Trailer Do Not Match
		4	Number of Included Segments Does Not Match Actual Count
		5	One or More Segments in Error
		6	Missing or Invalid Transaction Set Identifier
		7	Missing or Invalid Transaction Set Control Number
		8	Authentication Key Name Unknown
		9	Encryption Key Name Unknown
		10	Requested Service (Authentication or Encrypted) Not Available
		11	Unknown Security Recipient
		12	Incorrect Message Length (Encryption Only)
		13	Message Authentication Code Failed
		15	Unknown Security Originator
		16	Syntax Error in Decrypted Text
		17	Security Not Supported
		19	S1E Security End Segment Missing for S1S Security Start Segment
		20	S1S Security Start Segment Missing for S1E Security End Segment
		21	S2E Security End Segment Missing for S2S Security Start Segment
		22	S2S Security Start Segment Missing for S2E Security End Segment
		23	Transaction Set Control Number Not Unique within the Functional Group
	AK503	718	Transaction Set Syntax Error Code O ID 1/3
			Code indicating error found based on the syntax editing of a transaction set
			Use the same codes indicated in AK502.
			Refer to 003051 Data Element Dictionary for acceptable code values.



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C2.1 ANSI X12 997 Functional Acknowledgment, Version 3051 (continued)

AK504	718	Transaction Set Syntax Error Code O ID 1/3 Code indicating error found based on the syntax editing of a transaction set Use the same codes indicated in AK502. Refer to 003051 Data Element Dictionary for acceptable code values.
AK505	718	Transaction Set Syntax Error Code O ID 1/3 Code indicating error found based on the syntax editing of a transaction set Use the same codes indicated in AK502. Refer to 003051 Data Element Dictionary for acceptable code values.
AK506	718	Transaction Set Syntax Error Code O ID 1/3 Code indicating error found based on the syntax editing of a transaction set Use the same codes indicated in AK502. Refer to 003051 Data Element Dictionary for acceptable code values.



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C2.1 ANSI X12 997 Functional Acknowledgment, Version 3051 (continued)

Segment: **AK9** Functional Group Response Trailer
Position: 070
Loop:
Level:
Usage: Mandatory
Max Use: 1
Purpose: To acknowledge acceptance or rejection of a functional group and report the number of included transaction sets from the original trailer, the accepted sets, and the received sets in this functional group

Syntax Notes:
Semantic Notes:
Comments: 1 If AK901 is 'A' or 'E', then the transmitted functional group is accepted. If AK901 is 'R', then the transmitted group is rejected.

Data Element Summary

	Ref. Des.	Data Element	Name	
M	<u>Attributes</u> AK901	715	Functional Group Acknowledge Code Code indicating accept or reject condition based on the syntax editing of the functional group Comment. if AK901 contains the value "A" or "E". then the transmitted functional group is accepted. A Accepted E Accepted, But Errors Were Noted. M Rejected, Message Authentication Code (MAC) Failed P Partially Accepted, At Least One Transaction Set Was Rejected R Rejected W Rejected, Assurance Failed Validity Tests X Rejected, Content After Decryption Could Not Be Analyzed	M ID 1/1
M	AK902	97	Number of Transaction Sets Included Total number of transaction sets included in the functional group or interchange (transmission) group terminated by the trailer containing this data element This is the value in the original GE01.	M N0 1/6
M	AK903	123	Number of Received Transaction Sets Number of Transaction Sets received	M N0 1/6
M	AK904	2	Number of Accepted Transaction Sets Number of accepted Transaction Sets in a Functional Group	M N0 1/6
	AK905	716	Functional Group Syntax Error Code Code indicating error found based on the syntax editing of the functional group header and/or trailer 1 Functional Group Not Supported 2 Functional Group Version Not Supported 3 Functional Group Trailer Missing 4 Group Control Number in the Functional Group Header and Trailer Do Not Agree 5 Number of Included Transaction Sets Does Not Match Actual Count 6 Group Control Number Violates Syntax 10 Authentication Key Name Unknown 11 Encryption Key Name Unknown 12 Requested Service (Authentication or Encryption) Not Available 13 Unknown Security Recipient 14 Unknown Security Originator 15 Syntax Error in Decrypted Text	O ID 1/3



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C2.1 ANSI X12 997 Functional Acknowledgment, Version 3051 (continued)

		16	Security Not Supported	
		17	Incorrect Message Length (Encryption Only)	
		18	Message Authentication Code Failed	
		19	S1E Security End Segment Missing for S1S Security Start Segment	
		20	S1S Security Start Segment Missing for S1E End Segment	
		21	S2E Security End Segment Missing for S2S Security Start Segment	
		22	S2S Security Start Segment Missing for S2E Security End Segment	
AK906	716	Functional Group Syntax Error Code		O ID 1/3
		Code indicating error found based on the syntax editing of the functional group header and/or trailer		
		Use the same codes indicated in AK905.		
		Refer to 003051 Data Element Dictionary for acceptable code values.		
AK907	716	Functional Group Syntax Error Code		O ID 1/3
		Code indicating error found based on the syntax editing of the functional group header and/or trailer		
		Use the same codes indicated in AK905.		
		Refer to 003051 Data Element Dictionary for acceptable code values.		
AK908	716	Functional Group Syntax Error Code		O ID 1/3
		Code indicating error found based on the syntax editing of the functional group header and/or trailer		
		Use the same codes indicated in AK905.		
		Refer to 003051 Data Element Dictionary for acceptable code values.		
AK909	716	Functional Group Syntax Error Code		O ID 1/3
		Code indicating error found based on the syntax editing of the functional group header and/or trailer		
		Use the same codes indicated in AK905.		
		Refer to 003051 Data Element Dictionary for acceptable code values.		

3501LOOP(003051)

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C2.1 ANSI X12 997 Functional Acknowledgment, Version 3051 (concluded)

Segment: **SE** Transaction Set Trailer
Position: 080
Loop:
Level:
Usage: Mandatory
Max Use: 1
Purpose: To indicate the end of the transaction set and provide the count of the transmitted segments (including the beginning (ST) and ending (SE) segments).

Syntax Notes:

Semantic Notes:

Comments: 1 SE is the last segment of each transaction set.

Data Element Summary

	Ref.	Data	
	Des.	Element	Name
	<u>Attributes</u>		
M	SE01	96	Number of Included Segments M N0 1/10 Total number of segments included in a transaction set including ST and SE segments
M	SE02	329	Transaction Set Control Number M AN 4/9 Identifying control number that must be unique within the transaction set functional group assigned by the originator for a transaction set The Transaction Set Control Numbers in ST02 and SE02 must be identical. The number is assigned by the originator and must be unique within a functional group (GS-GE). The number also aids in error resolution research. For example, start with the number 0001 and increment from there.



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C2.2 ANSI X12 997 Functional Acknowledgment, Version 4010

997 Functional Acknowledgment

Functional Group ID=**FA**

Introduction:

This Draft Standard for Trial Use contains the format and establishes the data contents of the Functional Acknowledgment Transaction Set (997) for use within the context of an Electronic Data Interchange (EDI) environment. The transaction set can be used to define the control structures for a set of acknowledgments to indicate the results of the syntactical analysis of the electronically encoded documents. The encoded documents are the transaction sets, which are grouped in functional groups, used in defining transactions for business data interchange. This standard does not cover the semantic meaning of the information encoded in the transaction sets.

Pos. No.	Seg. ID	Name	Req. Des.	Max Use	Loop Repeat	Notes and Comments
M	010	ST	Transaction Set Header	M	1	n1
M	020	AK1	Functional Group Response Header	M	1	n2
		LOOP ID - AK2			999999	
	030	AK2	Transaction Set Response Header	O	1	n3
		LOOP ID - AK3			999999	
	040	AK3	Data Segment Note	O	1	c1
	050	AK4	Data Element Note	O	99	
M	060	AK5	Transaction Set Response Trailer	M	1	
M	070	AK9	Functional Group Response Trailer	M	1	
M	080	SE	Transaction Set Trailer	M	1	

Transaction Set Notes

- These acknowledgments shall not be acknowledged, thereby preventing an endless cycle of acknowledgments of acknowledgments. Nor shall a Functional Acknowledgment be sent to report errors in a previous Functional Acknowledgment.
The Functional Group Header Segment (GS) is used to start the envelope for the Functional Acknowledgment Transaction Sets. In preparing the functional group of acknowledgments, the application sender's code and the application receiver's code, taken from the functional group being acknowledged, are exchanged; therefore, one acknowledgment functional group responds to only those functional groups from one application receiver's code to one application sender's code. There is only one Functional Acknowledgment Transaction Set per acknowledged functional group.
- AK1 is used to respond to the functional group header and to start the acknowledgement for a functional group. There shall be one AK1 segment for the functional group that is being acknowledged.
- AK2 is used to start the acknowledgement of a transaction set within the received functional group. The AK2 segments shall appear in the same order as the transaction sets in the functional group that has been received and is being acknowledged.

Transaction Set Comments

- The data segments of this standard are used to report the results of the syntactical analysis of the functional groups of transaction sets; they report the extent to which the syntax complies with the standards for transaction sets and functional groups. They do not report on the semantic meaning of the transaction sets (for example, on the ability of the receiver to comply with the request of the sender).



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C2.2 ANSI X12 997 Functional Acknowledgment, Version 4010 (continued)

Segment: **ST** Transaction Set Header
Position: 010
Loop:
Level:
Usage: Mandatory
Max Use: 1
Purpose: To indicate the start of a transaction set and to assign a control number
Syntax Notes:
Semantic Notes: 1 The transaction set identifier (ST01) is used by the translation routines of the interchange partners to select the appropriate transaction set definition (e.g., 810 selects the Invoice Transaction Set).
Comments:

Data Element Summary

	Ref. Des.	Data Element	Name	
	<u>Attributes</u>			
M	ST01	143	Transaction Set Identifier Code Code uniquely identifying a Transaction Set 276 Health Care Claim Status Request 837 Health Care Claim	M ID 3/3
M	ST02	329	Transaction Set Control Number Identifying control number that must be unique within the transaction set functional group assigned by the originator for a transaction set The Transaction Set Control Number in ST02 and SE02 must be identical. The number is assigned by the originator and must be unique within a functional group (GS-GE). The number also aids in error resolution research. For example, start with the number 0001 and increment from there. Use the corresponding value in SE02 for this transaction set.	M AN 4/9



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C2.2 ANSI X12 997 Functional Acknowledgment, Version 4010 (continued)

Segment:	AK1 Functional Group Response Header
Position:	020
Loop:	
Level:	
Usage:	Mandatory
Max Use:	1
Purpose:	To start acknowledgment of a functional group
Syntax Notes:	
Semantic Notes:	<div><div>1</div><div>AK101 is the functional ID found in the GS segment (GS01) in the functional group being acknowledged.</div></div> <div><div>2</div><div>AK102 is the functional group control number found in the GS segment in the functional group being acknowledged.</div></div>
Comments:	

Data Element Summary				
	Ref. Des.	Data Element	Name	
	<u>Attributes</u>			
M	AK101	479	Functional Identifier Code	M ID 2/2
			Code identifying a group of application related transaction sets	
			HC Health Care Claim (837)	
			HR Health Care Claim Status Request (276)	
M	AK102	28	Group Control Number	M N0 1/9
			Assigned number originated and maintained by the sender	
			SEMANTIC: AK102 is the functional group control number found in the GS Segment in the functional group being acknowledged.	

X12-4010(004010)

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C2.2 ANSI X12 997 Functional Acknowledgment, Version 4010 (continued)

Segment: **AK2** Transaction Set Response Header
Position: 030
Loop: AK2 Optional
Level:
Usage: Optional
Max Use: 1
Purpose: To start acknowledgment of a single transaction set
Syntax Notes:
Semantic Notes:
1 AK201 is the transaction set ID found in the ST segment (ST01) in the transaction set being acknowledged.
2 AK202 is the transaction set control number found in the ST segment in the transaction set being acknowledged.

Comments:

Data Element Summary

	Ref. Des.	Data Element	Name	
M	<u>Attributes</u> AK201	143	Transaction Set Identifier Code Code uniquely identifying a Transaction Set SEMANTIC: AK201 is the transaction set ID found in the ST Segment in the transaction set being acknowledged. 276 Health Care Claim Status Request 837 Health Care Claim	M ID 3/3
M	AK202	329	Transaction Set Control Number Identifying control number that must be unique within the transaction set functional group assigned by the originator for a transaction set SEMANTIC: AK202 is the transaction set control number found in the ST Segment in the transaction set being acknowledged.	M AN 4/9



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C2.2 ANSI X12 997 Functional Acknowledgment, Version 4010 (continued)

Segment: **AK3** Data Segment Note
Position: 040
Loop: AK3 Optional
Level:
Usage: Optional
Max Use: 1
Purpose: To report errors in a data segment and identify the location of the data segment
Syntax Notes:
Semantic Notes:
Comments:

Data Element Summary			
	Ref. Des.	Data Element	Name
	<u>Attributes</u>		
M	AK301	721	Segment ID Code Code defining the segment ID of the data segment in error (See Appendix A - Number 77) This is the two or three characters which occur at the beginning of a segment.
M	AK302	719	Segment Position in Transaction Set The numerical count position of this data segment from the start of the transaction set: the transaction set header is count position 1 This is the numeric position number of the error segment in the Transaction Set with the ST Segment being position 1.
	AK303	447	Loop Identifier Code The loop ID number given on the transaction set diagram is the value for this data element in segments LS and LE
	AK304	720	Segment Syntax Error Code Code indicating error found based on the syntax editing of a segment This code is required if an error exists.
			1 Unrecognized segment ID
			2 Unexpected segment
			3 Mandatory segment missing
			4 Loop Occurs Over Maximum Times
			5 Segment Exceeds Maximum Use
			6 Segment Not in Defined Transaction Set
			7 Segment Not in Proper Sequence
			8 Segment Has Data Element Errors



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C2.2 ANSI X12 997 Functional Acknowledgment, Version 4010 (continued)

Segment: **AK4** Data Element Note
Position: 050
Loop: AK3 Optional
Level:
Usage: Optional
Max Use: 99
Purpose: To report errors in a data element or composite data structure and identify the location of the data element

Syntax Notes:
Semantic Notes: 1 In no case shall a value be used for AK404 that would generate a syntax error, e.g., an invalid character.

Comments:

Data Element Summary

Ref. Des.	Data Element	Name	
Attributes			
M AK401	C030	Position in Segment	M
		Code indicating the relative position of a simple data element, or the relative position of a composite data structure combined with the relative position of the component data element within the composite data structure, in error; the count starts with 1 for the simple data element or composite data structure immediately following the segment ID	
M C03001	722	Element Position in Segment	M N0 1/2
		This is used to indicate the relative position of a simple data element, or the relative position of a composite data structure with the relative position of the component within the composite data structure, in error; in the data segment the count starts with 1 for the simple data element or composite data structure immediately following the segment ID	
C03002	1528	Component Data Element Position in Composite	O N0 1/2
AK402	725	Data Element Reference Number	O N0 1/4
		Reference number used to locate the data element in the Data Element Dictionary	
		Used when the data element number can be determined. For example, the Data Element Reference Number for this data element is 725. All references numbers are found with the segment descriptor in the implementation guide.	
M AK403	723	Data Element Syntax Error Code	M ID 1/3
		Code indicating the error found after syntax edits of a data element	
		1 Mandatory data element missing	
		2 Conditional required data element missing.	
		3 Too many data elements.	
		4 Data element too short.	
		5 Data element too long.	
		6 Invalid character in data element.	
		7 Invalid code value.	
		8 Invalid Date	
		9 Invalid Time	
		10 Exclusion Condition Violated	
AK404	724	Copy of Bad Data Element	O AN 1/99
		This is a copy of the data element in error	
		Used to provide a copy of erroneous data to the original submitter, but this is not used if the error reported is an invalid character.	



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C2.2 ANSI X12 997 Functional Acknowledgment, Version 4010 (continued)

Segment:	AK5	Transaction Set Response Trailer	
Position:	060		
Loop:	AK2	Optional	
Level:			
Usage:	Mandatory		
Max Use:	1		
Purpose:	To acknowledge acceptance or rejection and report errors in a transaction set		
Syntax Notes:			
Semantic Notes:			
Comments:			

Data Element Summary			
	Ref.	Data	
	Des.	Element	Name
M	AK501	717	Transaction Set Acknowledgment Code M ID 1/1
			Code indicating accept or reject condition based on the syntax editing of the transaction set
		A	Accepted
		E	Accepted But Errors Were Noted
		M	Rejected, Message Authentication Code (MAC) Failed
		R	Rejected
		W	Rejected, Assurance Failed Validity Tests
		X	Rejected, Content After Decryption Could Not Be Analyzed
	AK502	718	Transaction Set Syntax Error Code O ID 1/3
			Code indicating error found based on the syntax editing of a transaction set
		1	Transaction Set Not Supported
		2	Transaction Set Trailer Missing
		3	Transaction Set Control Number in Header and Trailer Do Not Match
		4	Number of Included Segments Does Not Match Actual Count
		5	One or More Segments in Error
		6	Missing or Invalid Transaction Set Identifier
		7	Missing or Invalid Transaction Set Control Number
		8	Authentication Key Name Unknown
		9	Encryption Key Name Unknown
		10	Requested Service (Authentication or Encrypted) Not Available
		11	Unknown Security Recipient
		12	Incorrect Message Length (Encryption Only)
		13	Message Authentication Code Failed
		15	Unknown Security Originator
		16	Syntax Error in Decrypted Text
		17	Security Not Supported
		19	S1E Security End Segment Missing for S1S Security Start Segment
		20	S1S Security Start Segment Missing for S1E Security End Segment
		21	S2E Security End Segment Missing for S2S Security Start Segment
		22	S2S Security Start Segment Missing for S2E Security End Segment
		23	Transaction Set Control Number Not Unique within the Functional Group
		24	S3E Security End Segment Missing for S3S Security Start Segment

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C2.2 ANSI X12 997 Functional Acknowledgment, Version 4010 (continued)

	25	S3S Security Start Segment Missing for S3E Security End Segment
	26	S4E Security End Segment Missing for S4S Security Start Segment
	27	S4S Security Start Segment Missing for S4E Security End Segment
AK503	718	Transaction Set Syntax Error Code O ID 1/3 Code indicating error found based on the syntax editing of a transaction set Use the same codes indicated in AK502.
AK504	718	Transaction Set Syntax Error Code O ID 1/3 Code indicating error found based on the syntax editing of a transaction set Use the same codes indicated in AK502.
AK505	718	Transaction Set Syntax Error Code O ID 1/3 Code indicating error found based on the syntax editing of a transaction set Use the same codes indicated in AK502.
AK506	718	Transaction Set Syntax Error Code O ID 1/3 Code indicating error found based on the syntax editing of a transaction set Use the same codes indicated in AK502.



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C2.2 ANSI X12 997 Functional Acknowledgment, Version 4010 (continued)

Segment: **AK9** Functional Group Response Trailer
Position: 070
Loop:
Level:
Usage: Mandatory
Max Use: 1
Purpose: To acknowledge acceptance or rejection of a functional group and report the number of included transaction sets from the original trailer, the accepted sets, and the received sets in this functional group
Syntax Notes:
Semantic Notes:
Comments: 1 If AK901 contains the value "A" or "E", then the transmitted functional group is accepted.

Data Element Summary

Ref.	Des.	Data Element	Name	
Attributes				
M	AK901	715	Functional Group Acknowledge Code	M ID 1/1
			Code indicating accept or reject condition based on the syntax editing of the functional group	
			If AK901 contains the value "A" or "E", then the transmitted function group is accepted.	
			A Accepted	
			E Accepted, But Errors Were Noted.	
			M Rejected, Message Authentication Code (MAC) Failed	
			P Partially Accepted, At Least One Transaction Set Was Rejected	
			R Rejected	
			W Rejected, Assurance Failed Validity Tests	
			X Rejected, Content After Decryption Could Not Be Analyzed	
M	AK902	97	Number of Transaction Sets Included	M N0 1/6
			Total number of transaction sets included in the functional group or interchange (transmission) group terminated by the trailer containing this data element	
			This is the value in the original GE01.	
M	AK903	123	Number of Received Transaction Sets	M N0 1/6
			Number of Transaction Sets received	
M	AK904	2	Number of Accepted Transaction Sets	M N0 1/6
			Number of accepted Transaction Sets in a Functional Group	
	AK905	716	Functional Group Syntax Error Code	O ID 1/3
			Code indicating error found based on the syntax editing of the functional group header and/or trailer	
			1 Functional Group Not Supported	
			2 Functional Group Version Not Supported	
			3 Functional Group Trailer Missing	
			4 Group Control Number in the Functional Group Header and Trailer Do Not Agree	
			5 Number of Included Transaction Sets Does Not Match Actual Count	
			6 Group Control Number Violates Syntax	
			10 Authentication Key Name Unknown	
			11 Encryption Key Name Unknown	
			12 Requested Service (Authentication or Encryption) Not Available	
			13 Unknown Security Recipient	
			14 Unknown Security Originator	
			15 Syntax Error in Decrypted Text	
			16 Security Not Supported	
			17 Incorrect Message Length (Encryption Only)	
			18 Message Authentication Code Failed	

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C2.2 ANSI X12 997 Functional Acknowledgment, Version 4010 (continued)

	19	S1E Security End Segment Missing for S1S Security Start Segment
	20	S1S Security Start Segment Missing for S1E End Segment
	21	S2E Security End Segment Missing for S2S Security Start Segment
	22	S2S Security Start Segment Missing for S2E Security End Segment
	23	S3E Security End Segment Missing for S3S Security Start Segment
	24	S3S Security Start Segment Missing for S3E End Segment
	25	S4E Security End Segment Missing for S4S Security Start Segment
	26	S4S Security Start Segment Missing for S4E Security End Segment
AK906	716	Functional Group Syntax Error Code O ID 1/3 Code indicating error found based on the syntax editing of the functional group header and/or trailer Use the same codes indicated in AK905.
AK907	716	Functional Group Syntax Error Code O ID 1/3 Code indicating error found based on the syntax editing of the functional group header and/or trailer Use the same codes indicated in AK905.
AK908	716	Functional Group Syntax Error Code O ID 1/3 Code indicating error found based on the syntax editing of the functional group header and/or trailer Use the same codes indicated in AK905.
AK909	716	Functional Group Syntax Error Code O ID 1/3 Code indicating error found based on the syntax editing of the functional group header and/or trailer Use the same codes indicated in AK905.
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C2.2 ANSI X12 997 Functional Acknowledgment, Version 4010 (concluded)

Segment: **SE** Transaction Set Trailer
Position: 080
Loop:
Level:
Usage: Mandatory
Max Use: 1
Purpose: To indicate the end of the transaction set and provide the count of the transmitted segments (including the beginning (ST) and ending (SE) segments)
Syntax Notes:
Semantic Notes:
Comments: 1 SE is the last segment of each transaction set.

Data Element Summary

	Ref. Des.	Data Element	Name	
	<u>Attributes</u>			
M	SE01	96	Number of Included Segments	M N0 1/10
			Total number of segments included in a transaction set including ST and SE segments	
M	SE02	329	Transaction Set Control Number	M AN 4/9
			Identifying control number that must be unique within the transaction set functional group assigned by the originator for a transaction set	
			The Transaction Set Control Number in ST02 and SE02 must be identical. The number is assigned by the originator and must be unique within a functional group (GS-GE). The number also aids in error resolution research. For example, start with the number 0001 and increment from there.	



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